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| Application Data Sheet 37 CFR 1.76               |                                       | Attorney Docket Number  | 39.075  |  |
|--|---------------------------------------|---|---|--|
|  |                                       | Application Number  |   |  |
| Title of Invention                               | •                                     | tor Crystal and Method of Its Ma<br>nufacture, and Light-Emitting Ap        | nufacture, Group III Nitride Semiconductor<br>pliance   |  |
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# Secrecy Order 37 CFR 5.2

| Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to |
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| Appli   | car               | nt Informa    | ation:    |              |                |                  |           |                |           |           |                              |           |
| Applic  | ant               | 1             |           |              |                |                  |           |                |           |           | Remove                       |           |
| Applic  | ant               | Authority     | Inventor  | Or           | egal           | Representativ    | e under 3 | 5 L            | J.S.C. 11 | 7         | Party of Interest under 35 U | .S.C. 118 |
| Prefix  | Prefix Given Name |               |           |              | Middle Nar     | me               |           |                | Fan       | nily Name | Suffix                       |           |
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| Addre   | ss 2              |               | 1-1 Koy   | akita 1      | -cho           | me               |           |                |           |           |                              |           |
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| Postal  | l Co              | de            |           |              |                |                  | Country   | / <sup>i</sup> | JP        |           |                              |           |
| Applic  | ant               | 2             |           |              |                |                  |           |                |           |           | Remove                       |           |
| Applic  | ant               | Authority     | Inventor  | Or           | egal           | Representativ    | e under 3 | 5 L            | J.S.C. 11 | 7         | Party of Interest under 35 U | .S.C. 118 |
| Prefix  | Gi                | ven Name      |           | '            |                | Middle Nar       | me        |                |           | Fan       | nily Name                    | Suffix    |
| Mr.     | Hi                | deaki         |           |              |                |                  |           |                |           | Nak       | ahata                        |           |
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| Applic  | ant               | 3             |           |              |                |                  |           |                |           |           | Remove                       |           |
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| Prefix  | Gi                | ven Name      |           |              |                | Middle Nar       | me        |                |           | Fan       | nily Name                    | Suffix    |
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| Application Data Sheet 37 CFR 1.76 |  | Attorney Docket Number   | 39.075  |
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|                                    |  | Application Number   |   |
| Title of Invention                 |  | tor Crystal and Method of Its Ma<br>nufacture, and Light-Emitting Ap | nnufacture, Group III Nitride Semiconductor pliance |
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| Mailin   | g Ac   | ddress of Ap   | plicant:   |                                     |  |                             |                 |   |   |  |                            |
| Addre  | ss 1   |  | Sumitom  | Sumitomo Electric Industries, Ltd.  |  |                             |                 |   |   |  |                            |
| Addre  | ss 2   |  | 1-1 Koya   | -1 Koyakita 1-chome                 |  |                             |                 |   |   |  |                            |
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| Postal   | I Co   | de   |  |                                     |  | Coun                        | tryi            | JP                                      |   |  |                            |
| Applic   | ant  | 4  |  |                                     |  | •                           | -               |   |   | Remove   |                            |
| Applic   | ant  | Authority •  | Inventor   | ○Leg                                | al Representativ   | /e under                    | 35 U            | J.S.C. 11                               | 7                                       | Party of Interest under 35 U.S   | i.C. 118                   |
| Prefix   | Giv  | ven Name   | •  |                                     | Middle Na  | me                          |                 |   | Family                                  | / Name   | Suffix                     |
| Mr.  | Ma   | akoto  |  |                                     |  |                             |                 |   | Kiyama                                  | а  |                            |
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| Addre  | ss 1   |  | Sumitom  | o Electri                           | c Industries, Ltd  | l.                          |                 |   |   |  |                            |
| Addre  | ss 2   |  | 1-1 Koya   | ıkita 1-ch                          | nome   |                             |                 |   |   |  |                            |
| City   |  | Itami-shi, Hy  | ogo  |                                     |  |                             | State           | e/Provir                                | ice                                     |  |                            |
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| Applic   | ant  | 5  |  |                                     |  | <u> </u>                    |                 |   |   | Remove   |                            |
|  |  | 5<br>Authority <b>①</b>  | Inventor   | CLeg                                | al Representativ   | /e under                    | 35 U            | J.S.C. 11                               | 7                                       | Remove Party of Interest under 35 U.S  | s.C. 118                   |
|  | ant  |  | Inventor   | CLeg                                | al Representativ   |                             | 35 U            | J.S.C. 11                               |   |  | S.C. 118                   |
| Applic   | ant<br>Giv   | Authority  | Inventor   | CLeg                                |  |                             | 35 U            | J.S.C. 11                               |   | Party of Interest under 35 U.S   | 1                          |
| Applic<br>Prefix<br>Mr.  | <b>Giv</b>   | Authority   ven Name   |  |                                     |  | me                          |                 | J.S.C. 11                               | Family<br>Nagai                         | Party of Interest under 35 U.S   | Suffix                     |
| Applic<br>Prefix<br>Mr.  | <b>Giv</b>   | Authority  ven Name  puichi  |  | One) (                              | Middle Na  | me<br>Ey •                  | ) Noi           |   | Family<br>Nagai                         | Party of Interest under 35 U.S   | Suffix                     |
| Applic<br>Prefix<br>Mr.<br>Resid   | Giv<br>Yo  | Authority  ven Name  puichi  | n (Select (  | One) (                              | Middle Na US Residence   | me<br>Ey •                  | ) Noi           | n US Res                                | Family<br>Nagai                         | Party of Interest under 35 U.S   | Suffix                     |
| Applic<br>Prefix<br>Mr.<br>Resid<br>City   | Giv<br>Yo<br>lence   | Authority   ven Name  puichi e Information   | n (Select (<br>SFR 1.41(b  | One) (                              | Middle Na US Residence Country Of Re   | me<br>Ey •                  | ) Noi           | n US Res                                | Family<br>Nagai                         | Party of Interest under 35 U.S   | Suffix                     |
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| Application  | Data 9                | Sheet 37 CFR 1.76   | Attorn              | ey Docket N              | lumber                   | 39.075                              | j               |                             |           |         |                    |
| Application  | Data                  | Sileet 37 Cl K 1.70   | Applic              | ation Numb               | er                       |                                     |                 |                             |           |         |                    |
| Title of Invention   |                       | oup III Nitride Semiconducevice and Method of Its Ma  |                     |                          |                          |                                     | e, Gı           | roup III Nitrid             | e Sen     | nicondu | ctor               |
| Mailing Addre  | ess of Ar             | oplicant:   |                     |                          |                          |                                     |                 |                             |           |         |                    |
| Address 1  |                       | Sumitomo Electric Indu  | ustries, Lto        | <br>d.                   |                          |                                     |                 |                             |           |         |                    |
| Address 2  |                       | 1-1 Koyakita 1-chome  | · ·                 |                          |                          |                                     |                 |                             |           |         |                    |
| City Ita   | mi-shi, H             | yogo  |                     | Sta                      | te/Provir                | nce                                 |                 |                             |           |         |                    |
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|  |                       | r Number or complete<br>n see 37 CFR 1.33(a).   | the Cor             | responden                | ce Inforn                | nation s                            | ect             | ion below.                  |           |         |                    |
| ☐ An Addre   | ess is be             | ing provided for the o  | orrespo             | ndence Inf               | ormation                 | of this                             | app             | olication.                  |           |         |                    |
| Customer Nu  | mber                  | 29453   |                     |                          |                          |                                     |                 |                             |           |         |                    |
| Email Addres   | s                     | jj@mj-ip.jp   |                     |                          |                          |                                     | [               | Add Email                   |           | Remov   | e Email            |
| Application  | n Infor               | mation:   |                     |                          |                          |                                     |                 |                             |           |         |                    |
| Title of the In  | vention               | Group III Nitride Se<br>Semiconductor De  |                     |                          |                          |                                     |                 |                             |           |         |                    |
| Attorney Doc   | ket Num               | <b>ber</b> 39.075   |                     | \$                       | Small Ent                | tity Stat                           | us (            | Claimed [                   |           |         |                    |
| Application T  | ype                   | Nonprovisional  |                     |                          |                          |                                     |                 |                             |           |         |                    |
| Subject Matte  | r                     | Utility   |                     |                          |                          |                                     |                 |                             |           |         |                    |
| Suggested Cl   | ass (if a             | ny)   |                     |                          | Sub Clas                 | s (if any                           | <u>')</u>       |                             |           |         |                    |
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| Request I  | Early Pub             | olication (Fee required a   | at time of          | Request 37               | CFR 1.2                  | 219)                                |                 |                             |           |         |                    |
| Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not been and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. |                       |   |                     |                          |                          |                                     |                 |                             |           |         |                    |
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| Application Be  | na onceror or it in   | Application Number     |        |  |
| Title of Invention  Group III Nitride Semiconductor Crystal and Method of Its Manufacture, Group III Nitride Semiconductor Device and Method of Its Manufacture, and Light-Emitting Appliance |                       |                        |        |  |

# **Domestic Priority Information:**

| This section allows for the applicant to claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c). Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a) (4), and need not otherwise be made part of the specification. |  |                          |                          |  |  |  |  |
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| Prior Application Status   |  |                          | Remove                   |  |  |  |  |
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#### **Foreign Priority Information:**

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| Application Number                             | Country i                        | Parent Filing Date (YYYY-MM-DD)  | Priority Claimed |
| JP2004147914                                   | JP                               | 2004-05-18   |                  |
|  |                                  |  | Remove           |
| Application Number                             | Country i                        | Parent Filing Date (YYYY-MM-DD)  | Priority Claimed |
| JP2005117967                                   | JP                               | 2005-04-15   |                  |
| Additional Foreign Priority <b>Add</b> button. | Data may be generated within the | his form by selecting the  | Add              |

## **Assignee Information:**

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|---|--|---|--|--|--|--|--|--|--|
| Assignee 1  |  |   |  |  |  |  |  |  |  |
| If the Assignee is an O   | rganization check here.                              | <b>✓</b>  |  |  |  |  |  |  |  |
| Organization Name   | Organization Name Sumitomo Electric Industries, Ltd. |   |  |  |  |  |  |  |  |
| Mailing Address Infor   | mation:  |   |  |  |  |  |  |  |  |
| Address 1   | 5-33 Kitahama 4-ch                                   | nome, Chuo-ku                                       |  |  |  |  |  |  |  |
| Address 2   |  |   |  |  |  |  |  |  |  |
| City  | Osaka  | State/Province                                      |  |  |  |  |  |  |  |
| Country   JP  | •  | Postal Code   | 541-0041                                   |  |  |  |  |  |  |
| Phone Number  |  | Fax Number  |  |  |  |  |  |  |  |
| Email Address   | Email Address  |   |  |  |  |  |  |  |  |
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### Signature:

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| Application Da                     | nta Sheet 37 CFR 1 76 | Attorney Docket Number   | 39.075  |
|------------------------------------|-----------------------|--|---|
| Application Data Sheet 37 CFR 1.76 |                       | Application Number   |   |
| Title of Invention                 | •                     | tor Crystal and Method of Its Ma<br>nufacture, and Light-Emitting Ap | nufacture, Group III Nitride Semiconductor<br>pliance |

| Signature  | /James Judge/ |           |       | Date (YYYY-MM-DD)   | 2006-09-18 |
|------------|---------------|-----------|-------|---------------------|------------|
| First Name | James         | Last Name | Judge | Registration Number | 42,701     |

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